

PATENT/DOCKET NO. \_\_\_\_\_  
CUSTOMER NO. \_\_\_\_\_

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:	§	Attorney Docket No. _____
Serial No.: n/a	§	
Filed: Herewith	§	Group Art Unit: n/a
Title: A Coherent Receiver	§	Examiner: n/a
	§	
	§	
	§	

Commissioner for Patents  
Washington, D.C. 20231

POWER OF ATTORNEY FOR  
PATENT APPLICATION

Nortel Networks Limited, a Canadian corporation having principal offices at:

**Nortel Networks Limited**  
**2351 Boulevard Alfred-Nobel**  
**St. Laurent, Quebec H4S 2A9, Canada**

the owner by assignment of the entire right, title and interest to the invention for "A Coherent Receiver", by Richard Epworth, Seb Savory and Robin Rickard, and in and to the application for patent and any Letters Patent, whether domestic or foreign, that may issue thereon, by virtue of the assignment (check as applicable):

- ☒ Recorded Concurrently Herewith  
☐ Recorded on \_\_\_\_\_  
☐ Recorded at Reel \_\_\_\_\_ Frame \_\_\_\_\_  
☐ Copy Attached

hereby appoints the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Thomas E. Smith (Reg. No. 18,243), Dennis M. McWilliams (Reg. No. 25,195), James R. Sweeney (Reg. No. 18,721), William M. Lee, Jr. (Reg. No. 26,935), Glenn W. Ohlson, (Reg. No. 28,455), David C. Brezina (Reg. No. 34,128), Jeffrey R. Gray (Reg. No. 33,391), Timothy J. Engling (Reg. No. 39,970), Gerald S. Geren (Reg. No. 24,528), Peter J. Shakula (Reg. No. 40,808), Robert F.I. Conte (Reg. No. 20,354), Howard B. Flockman (Reg. No. 22,190), Mark J. Nahnsen (Reg. No. 51,093), Mark A. Hagedorn (Reg. No. 44,731);

its attorneys with full power of substitution and revocation, to prosecute all domestic and foreign patent applications, including PCT and EPO filings, relating to said invention and to transact all business connected therewith, including signing of all papers on its behalf and making alterations and amendments.

The undersigned is the representative for the Assignee of the entire right, title, and interest in the patent application identified above, and is authorized to act on behalf of the Assignee.

NORTEL NETWORKS LIMITED

17 December 2003  
Date

R. Free.  
Name: **Dr Rachel Free**  
Senior Patent Attorney.  
Title

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<b>DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION</b> (37 CFR 1.63)		Attorney Docket Number	920476-9532
		First Named Inventor	Richard Epworth
<input checked="" type="checkbox"/> Declaration Submitted With Initial Filing OR <input type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)		COMPLETE IF KNOWN	
		Application Number	
		Filing Date	
		Art Unit	
		Examiner Name	

I hereby declare that:

Each inventor's residence, mailing address, and citizenship are as stated below next to their name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

A COHERENT RECEIVER

(Title of the Invention)

the specification of which

☒ is attached hereto

OR

☐ was filed on (MM/DD/YYYY) [ ] as United States Application Number or PCT International

Application Number [ ] and was amended on (MM/DD/YYYY) [ ] (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				Yes	No
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

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This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

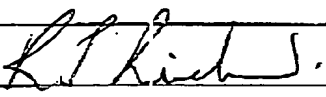
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## DECLARATION — Utility or Design Patent Application

Direct all correspondence to: <input checked="" type="checkbox"/>		Customer Number: <u>23644</u>	OR <input type="checkbox"/> Correspondence address below	
Name BARNES & THORNBURG				
Address PO BOX 2786				
City CHICAGO		State ILLINOIS		ZIP 60690-2786
Country UNITED STATES OF AMERICA		Telephone (312) 357-1313		Fax (312) 759-5646
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.				
NAME OF SOLE OR FIRST INVENTOR:		<input type="checkbox"/> A petition has been filed for this unsigned inventor		
Given Name (first and middle [if any]) RICHARD		Family Name or Surname EPWORTH		
Inventor's Signature 		Date 15/12/2003		
Residence: City SAWBRIDGEWORTH	State: HERTFORDSHIRE	Country UNITED KINGDOM	Citizenship BRITISH	
Mailing Address 18 SEYMOUR MEWS				
City SAWBRIDGEWORTH	State: HERTFORDSHIRE	ZIP CM21 0BD	Country UNITED KINGDOM	
NAME OF SECOND INVENTOR:		<input type="checkbox"/> A petition has been filed for this unsigned inventor		
Given Name (first and middle [if any]) SEB		Family Name or Surname SAVORY		
Inventor's Signature 		Date 15/12/2003		
Residence: City BASSINGBOURN	State: CAMBRIDGESHIRE	Country SG8 5JX	Citizenship BRITISH	
Mailing Address 50 TOWER CLOSE				
City BASSINGBOURN	State: CAMBRIDGESHIRE	ZIP SG8 5JX	Country UNITED KINGDOM	
<input checked="" type="checkbox"/> Additional inventors or a legal representative are being named on the 1 supplemental sheet(s) PTO/SB/02A or 02LR attached hereto.				

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<b>DECLARATION</b>	<b>ADDITIONAL INVENTOR(S)</b> Supplemental Sheet
Page <u>1</u> of <u>1</u>	

<b>Name of Additional Joint Inventor, if any:</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
ROBIN		RICKARD	
Inventor's Signature 		Date <u>15/12/2003</u>	
SPELLBROOK Residence: City	HERTFORDSHIRE State	UNITED KINGDOM Country	BRITISH Citizenship
EAST LODGE, DELL LANE Mailing Address			
EAST LODGE, DELL LANE Mailing Address			
SPELLBROOK City	HERTFORDSHIRE State	CM22 7SG Zip	UNITED KINGDOM Country
<b>Name of Additional Joint Inventor, if any:</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Inventor's Signature		Date	
Residence: City	State	Country	Citizenship
Mailing Address			
Mailing Address			
City	State	Zip	Country
<b>Name of Additional Joint Inventor, if any:</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Inventor's Signature		Date	
Residence: City	State	Country	Citizenship
Mailing Address			
Mailing Address			
City	State	Zip	Country

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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